



Serial No. 08/447,712 6-3-81
Docket No. 5634.0127 NP

#29
6-3-0
NP

THE UNITED STATES PATENT AND TRADEMARK OFFICE

PATENT

In re Application of:

John C. Harvey and James W. Cuddihy:

Serial No.: 08/447,712

Filed: May 23, 1995

**For: SIGNAL PROCESSING APPARATUS
AND METHODS**

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Group Art Unit: 2699

Examiner: Luther, W.

Atty Dkt: 05634.0127

Information Disclosure Statement

Assistant Commissioner for Patents
Washington, D.C. 20231

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. § 120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

[] 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits. No statement under 37 C.F.R. § 1.97(e) or fee is required. 37 C.F.R. § 1.97(b).

[X] 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance. 37 C.F.R. § 1.97(c).

[] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

[] b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

[X] c. Attached is our Check No. 3437 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

[] 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered. Attached is our Check No. 3437 in the amount of \$180.00 in payment of the fee under 37 C.F.R. § 1.17(i). 37 C.F.R. § 1.97(d).

[] a. I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

[] b. I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

[] c. An accompanying petition requesting consideration of this Information Disclosure Statement and the petition fee set forth in 37 C.F.R. § 1.17(i) are included with this communication. 37 C.F.R. § 1.97(d)(2) & (3).

[] 4. Relevance of the non-English language document(s) is discussed in the present specification. 37 C.F.R. § 1.98(a)(3).

[X] 5. A concise explanation of the relevance of the non-English language document(s) appears below in Appendix A. 37 C.F.R. § 1.98(a)(3).

[X] 6. Some documents were cited in corresponding foreign applications.

[X] 7. The Examiner's attention is directed to Applicants' co-pending U.S. Patent Applications that are directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application

and the art cited therein during examination. 37 C.F.R. § 1.98(d). Attached hereto is Appendix B listing Applicants' related applications, and Appendix C that lists the prior art previously cited by the PTO in those applications.

[X] 1. Copies of the documents were cited by or submitted to the Office in Applicants' Applications listed in Appendix D which are relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d). Applicants submit Appendix E which contains a list of all references not hereto previously cited in the instant application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

A single set of copied references required by 37 C.F.R. § 1.98(a) have been submitted in conjunction with this communication in Applicant's application number 08/113,329 in compliance with the PTO's instructions in the First Office Action of the above referenced application.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 50-0206.

Respectfully submitted,



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THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
PATENT & TRADEMARK OFFICE
Held at Washington, D.C.

Application of:

John C. Harvey and James W. Cuddihy:

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Group 2600

Group Art Unit: 2699

Examiner: Luther, W.

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TRANSMITTAL LETTER

BOX: Fee Amendment

Assistant Commissioner of Patents
Washington, D.C. 20231

Applicants include in this communication:

- Information Disclosure Statement;
- PTO Form 1449;
- Check No. 3437 for \$180.00;
- Appendices A-E;
- The Commissioner is hereby authorized to charge any additional fees, or credit any overpayment to Deposit Account No. 50-0206.

- Any filing fees under 37 CFR 1.16 for the presentation of extra claims.
- Any patent application processing fees under 37 CFR 1.17.

Respectfully submitted,

Thomas J. Scott, Jr.
Registration No. 27,836
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Attorneys for Applicants
Tel: (202) 955-1938

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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

CITATION FORM

Attorney Docket No. Serial No.

05634.0127 08/447,712

MAY 15 2001

Applicant(s)

John C. Harvey and James W. Cuddihy

Group 2600

Filing Date Group Art Unit

May 23, 1995 2699

UNITED STATES PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	1,927,702	September 19, 1933	Foss	705/36	December 3, 1932
	2,511,085	June 13, 1950	Smith	381/104	November 15, 1946
	2,573,349	October 30, 1951	Miller et al.	725/14	December 9, 1949
	2,769,023	October 30, 1956	Loew et al.	725/143	January 19, 1950
	2,788,387	April 9, 1957	Druz	380/320	October 2, 1951
	2,864,865	December 16, 1958	Morris	568/430	May 4, 1955
	2,866,962	December 30, 1958	Ellet	380/227	December 6, 1955
	2,969,427	January 24, 1961	See	348/705	May 27, 1957
	3,008,000	November 7, 1961	Morchan	725/138	September 11, 1958
	3,016,091	January 9, 1962	Daniele	162/391	August 11, 1960
	3,071,642	January 1, 1963	Mountjoy et al.	725/151	February 21, 1957
	3,213,201	October 19, 1965	Flood et al.	370/381	July 2, 1962
	3,238,297	March 1, 1966	Pawley et al.	380/240	July 8, 1951
	3,244,806	April 5, 1966	Morris	725/151	January 30, 1962
	3,363,250	January 9, 1968	Jacobson	340/825.17	July 20, 1965
	3,371,071	February 27, 1968	Webb	428/355EN	January 18, 1965
	3,387,268	June 4, 1968	Epstein	340/825.26	September 9, 1963
	3,531,583	September 29, 1970	Walker	380/230	July 28, 1966
	3,531,586	September 29, 1970	Bass et al.	725/151	April 19, 1965
	3,536,833	October 27, 1970	Guanella	380/28	July 8, 1965
	3,569,937	March 9, 1971	Hoetter	340/825.75	November 6, 1968
	3,573,747	April 6, 1971	Adams et al.	705/37	February 24, 1969
	3,586,767	June 22, 1971	Morchan	348/473	June 4, 1968
	3,586,771	June 22, 1971	Hamburger et al.	725/1	October 25, 1968
	3,601,528	August 24, 1971	McVoy	724/143	June 16, 1969
	3,606,688	April 24, 1971	Zawels et al.	434/323	July 11, 1969
	3,609,697	September 28, 1971	Blevins et al.	717/2	October 21, 1968
	3,627,914	December 14, 1971	Davies	348/722	September 4, 1969
	3,648,270	March 7, 1972	Metz et al.	345/24	August 11, 1969
	3,657,699	April 18, 1972	Rocher et al.	380/265	June 30, 1970
	3,659,046	April 5, 1972	Angeleri et al.	380/43	May 13, 1969
	3,676,580	July 11, 1972	Beck	725/16	June 1, 1970
	3,693,090	September 29, 1972	Gabriel	725/1	August 8, 1969
	3,703,684	November 21, 1972	McVoy	725/16	June 25, 1971
	3,716,835	February 13, 1973	Weinberg	340/825.27	March 19, 1971
	3,725,672	April 3, 1973	Reuter	327/176	July 30, 1971

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Group 2600
Serial No. 08/447,712
Docket No. 5634.0127

EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	3,729,581	April 24, 1973	Anderson	348/640	September 3, 1973
	3,731,197	May 1, 1973	Clark	380/36	December 15, 1969
	3,736,369	May 29, 1973	Vogelman et al.	380/228	March 13, 1972
	3,744,043	July 3, 1973	Walden et al.	340/870.7	June 1, 1971
	3,746,780	July 17, 1973	Stetten et al.	386/95	February 25, 1971
	3,749,845	July 31, 1973	Fraser	370/433	August 27, 1971
	3,754,211	August 21, 1973	Rocher et al.	714/749	December 30, 1971
	3,755,624	August 28, 1973	Sekimoto	348/495	April 22, 1971
	3,757,225	September 4, 1973	Ukicki	725/1	March 16, 1972
	3,761,888	September 25, 1973	Flynn	710/18	August 3, 1972
	3,773,977	November 20, 1973	Guanella	380/36	June 21, 1971
	3,777,053	December 4, 1973	Wittig et al.	380/228	May 16, 1972
	3,789,137	January 29, 1974	Newell	386/98	April 7, 1972
	3,798,359	March 19, 1974	Feistel	380/37	June 30, 1971
	3,798,610	March 19, 1974	Bliss et al..	709/236	December 20, 1972
	3,806,814	April 23, 1974	Forbes	725/119	April 26, 1972
	3,819,852	June 24, 1974	Wolf	348/478	August 29, 1972
	3,824,332	July 16, 1974	Horowitz	380/222	February 18, 1972
	3,824,467	July 16, 1974	French	380/35	December 1, 1972
	3,825,893	July 23, 1974	Bossen et al.	714/757	May 29, 1973
	3,833,757	September 3, 1974	Kirk, Jr. et al.	725/144	April 10, 1972
	3,835,387	September 10, 1974	Rookes et al.	725/151	November 15, 1972
	3,842,196	October 15, 1974	Loughlin.	348/486	November 12, 1973
	3,845,391	October 29, 1974	Crosby	455/39	July 15, 1971
	3,859,458	January 7, 1975	Takezawa et al.	348/24	August 30, 1973
	3,882,392	May 6, 1975	Harney	725/79	January 29, 1973
	3,890,461	June 17, 1975	Vogelman et al.	380/228	March 27, 1973
	3,891,792	June 24, 1975	Kimura	348/622	June 25, 1974
	3,893,031	July 1, 1975	Majeau et al.	380/274	November 8, 1972
	3,894,176	July 8, 1995	Mellon	380/230	178/5.1
	3,899,633	August 12, 1975	Sorenson et al.	380/207	May 12, 1972
	3,909,512	September 30, 1975	Omori et al.	386/75	October 5, 1973
	3,911,216	October 7, 1975	Bartek et al.	380/46	December 17, 1973
	3,911,419	October 7, 1975	Bates et al.	345/162	November 23, 1973
	3,914,534	October 21, 1975	Forbes	380/220	October 29, 1973
	3,916,091	October 28, 1975	Kirk, Jr. et al.	380/242	January 31, 1973
	3,919,462	November 11, 1975	Hartung et al.	380/235	August 15, 1973
	3,921,151	November 18, 1975	Guanella	380/36	July 12, 1973
	3,922,482	November 25, 1975	Gabriel et al.	725/31	August 20, 1971
	3,934,079	January 20, 1976	Barnhart	725/131	October 26, 1973
	3,936,593	February 3, 1976	Aaronson et al.	380/219	August 5, 1974
	3,936,594	February 3, 1976	Schubin et al.	380/238	August 5, 1974
	3,944,931	March 16, 1976	Usami et al.	455/192.2	November 14, 1974
	3,949,313	April 6, 1976	Tamada et al.	341/50	May 28, 1974
	3,956,615	May 11, 1976	Anderson et al.	705/72	June 25, 1974

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Serial No. 08/447,712
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EXAMINER INITIAL	PATENT NUMBER	PATENT DATE	NAME	Group 2600SS/ SUBCLASS	FILING DATE*
	3,970,790	July 20, 1976	Guanella	380/36	March 7, 1974
	3,978,449	August 31, 1976	Sanders et al.	714/823	January 27, 1975
	3,987,398	October 19, 1976	Fung	725/127	July 5, 1974
	3,988,528	October 26, 1976	Yanagimachi et al.	348/24	August 27, 1973
	3,990,050	November 2, 1976	Kolettis et al.	710/23	September 25, 1974
	3,993,955	November 23, 1976	Belcher et al.	725/33	April 25, 1975
	3,997,718	December 14, 1976	Ricketts et al.	725/114	November 11, 1974
	4,008,369	February 15, 1977	Theurer et al.	725/3	February 28, 1975
	4,024,574	May 17, 1977	Nieson	380/232	February 26, 1975
	4,025,947	May 24, 1977	Michael	348/705	May 28, 1974
	4,025,948	May 24, 1977	Loshin	380/228	February 25, 1975
	4,048,619	September 13, 1977	Forman, Jr. et al.	370/485	September 17, 1976
	4,049,906	September 20, 1977	Hafner et al.	178/2C	April 21, 1976
	4,052,737	October 4, 1977	Robertson et al.	725/138	July 9, 1976
	4,058,830	November 15, 1977	Gulnet et al.	380/212	June 3, 1976
	4,064,490	December 20, 1977	Nagel	709/227	September 10, 1975
	4,068,264	January 10, 1978	Pires	380/233	July 19, 1976
	4,079,419	March 14, 1978	Siegle et al.	348/732	October 29, 1975
	4,081,612	March 28, 1978	Hafner	370/393	July 14, 1976
	4,081,753	March 28, 1978	Miller	455/158.2	December 13, 1976
	4,091,417	May 23, 1978	Nieson	380/232	February 23, 1977
	4,104,486	August 1, 1978	Martin et al.	379/106.06	June 29, 1976
	4,112,464	September 5, 1978	Gulf et al.	380/241	May 11, 1977
	4,115,662	September 19, 1978	Gulnet et al.	380/212	September 6, 1977
	4,115,807	September 19, 1978	Pires	380/233	November 1, 1976
	4,120,030	October 10, 1978	Johnstine	713/190	March 11, 1977
	4,130,833	December 19, 1978	Choenet	380/220	April 11, 1977
	4,138,726	February 26, 1979	Girault et al.	345/113	June 29, 1977
	4,160,120	July 3, 1979	Barnes et al.	380/29	November 17, 1977
	4,161,751	July 17, 1979	Ost	725/25	Ma. 19, 1977
	4,163,254	July 31, 1979	Block et al.	380/233	February 14, 1977
	4,163,255	July 31, 1979	Pires	380/233	June 15, 1978
	4,168,396	September 18, 1979	Best	713/190	October 31, 1977
	4,170,782	October 9, 1979	Miller	725/14	October 28, 1977
	4,171,513	October 16, 1979	Otey et al.	380/43	July 22, 1969
	4,172,213	October 23, 1979	Barnes et al.	380/29	November 17, 1977
	4,186,413	January 29, 1980	Mortimer	348/473	November 14, 1977
	4,196,310	April 1, 1980	Forman et al.	380/46	November 3, 1977
	4,200,770	April 29, 1980	Hellman et al.	380/30	September 6, 1977
	4,200,913	April 29, 1980	Kuhar et al.	341/23	April 13, 1977
	4,215,366	July 29, 1980	Davidson	380/235	April 24, 1979
	4,215,370	July 29, 1980	Kirk, Jr.	375/240.01	February 22, 1978
	4,225,967	September 3, 1980	Miwa et al.	455/68	January 9, 1978
	4,232,193	November 4, 1980	Gerard	380/36	May 3, 1978
	4,236,217	November 25, 1980	Kennedy	702/61	April 20, 1979

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EXAMINER INITIAL	PATENT NUMBER	TRADEMARK NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,237,484		December 2, 1980	Brown et al.	375/240.12	August 8, 1979
	4,237,486		December 2, 1980	Shimp	348/475	November 9, 1978
	4,245,246		January 13, 1981	Cheung	380/235	August 3, 1978
	4,247,106		January 27, 1981	Jeffers et al.	463/29	April 12, 1978
	4,250,489		February 10, 1981	Dudash et al.	340/825.02	October 31, 1978
	4,250,521		February 10, 1981	Wright	348/616	June 19, 1979
	4,250,524		February 10, 1981	Tomizawa	380/232	February 22, 1979
	4,251,691		February 17, 1981	Kakihara et al.	348/14.01	December 1, 1978
	4,253,114		February 24, 1981	Tang et al.	380/212	September 26, 1978
	4,253,157		February 24, 1981	Kirschner et al.	707/104	September 29, 1978
	4,262,329		April 14, 1981	Bright et al.	713/164	March 27, 1978
	4,264,925		April 28, 1981	Freeman et al.	725/138	August 13, 1979
	4,266,243		May 5, 1981	Shutterly	380/236	April 25, 1979
	4,275,411		June 23, 1981	Lippel	348/472	April 19, 1978
	4,283,602		August 11, 1981	Adams et al.	380/41	September 23, 1968
	4,284,976		August 18, 1981	Gable et al.	340/825.43	June 7, 1979
	4,286,281		August 25, 1981	Suzuki	386/12	September 26, 1979
	4,287,592		September 1, 1981	Paulish et al.	370/403	May 23, 1979
	4,288,809		September 8, 1981	Yabe	348/468	May 21, 1980
	4,290,141		September 15, 1981	Anderson et al.	725/24	July 2, 1979
	4,295,223		October 13, 1981	Shutterly	455/72	April 25, 1979
	4,302,771		November 24, 1981	Gargini	725/119	July 23, 1980
	4,304,990		December 8, 1981	Atalla	380/45	February 4, 1980
	4,305,131		December 8, 1981	Best	345/327	March 31, 1980
	4,306,289		December 15, 1981	Lumley	713/190	February 4, 1980
	4,306,305		December 15, 1981	Doi et al.	714/755	October 19, 1979
	4,307,446		December 22, 1981	Barton et al.	710/131	May 2, 1979
	4,310,854		January 12, 1982	Baer	348/484	August 28, 1979
	4,312,016		January 19, 1982	Glaab et al.	348/706	February 2, 1979
	4,313,132		January 26, 1982	Doles et al.	725/26	October 31, 1979
	4,314,367		February 2, 1982	Bakka et al.	370/422	January 17, 1980
	4,316,055		February 16, 1982	Feistel	380/37	December 30, 1976
	4,316,245		February 16, 1982	Luu et al.	709/106	December 7, 1978
	4,317,215		February 23, 1982	Tabata et al.	725/131	September 11, 1979
	4,318,125		March 2, 1982	Shutterly	380/236	April 25, 1979
	4,319,079		March 9, 1982	Best	713/190	January 17, 1980
	4,322,745		March 30, 1982	Saeki et al.	380/242	March 21, 1980
	4,323,921		April 6, 1982	Guillou	705/53	January 23, 1980
	4,323,922		January 6, 1982	de Toonder et al.	380/226	December 17, 1979
	4,325,078		April 13, 1982	Seatom et al.	380/230	November 20, 1979
	4,329,675		May 11, 1982	Van Hulle	725/32	September 23, 1980
	4,329,684		May 11, 1982	Monteath et al.	345/180	January 15, 1980
	4,330,794		May 18, 1982	Sherwood	380/206	February 25, 1980
	4,332,980		June 1, 1982	Reynolds et al.	370/259	May 30, 1980
	4,334,242		June 8, 1982	Mangold	386/46	January 14, 1980



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Group 2600

EXAMINER INITIAL	PATENT NUMBER	TRADEMARK NUMBER	PATENT DATE	NAME	CLASS/ SUBCLASS	FILING DATE*
	4,336,553		June 22, 1982	den Toonder et al.	380/206	May 14, 1980
	4,336,559		June 22, 1982	Koyama et al.	260/73.05	November 9, 1978
	4,337,480		June 29, 1982	Bourassini et al.	348/552	February 8, 1980
	4,338,628		July 6, 1982	Payne et al.	380/213	December 19, 1979
	4,339,798		July 13, 1982	Hedges et al.	463/26	December 17, 1979
	4,340,903		July 20, 1982	Tamura	348/187	August 6, 1980
	4,343,042		August 3, 1982	Schrock et al.	725/116	June 9, 1979
	4,347,498		August 31, 1982	Lee et al.	340/825.02	November 21, 1979
	4,347,532		August 31, 1982	Korver	348/565	October 14, 1980
	4,353,088		October 5, 1982	den Toonder et al.	380/206	May 14, 1980
	4,354,201		October 12, 1982	Sechet et al.	380/228	June 11, 1980
	4,360,828		November 23, 1982	Briggs, Jr. et al	725/114	August 7, 1978
	4,361,851		November 30, 1982	Asip et al.	725/14	January 4, 1980
	4,361,877		November 30, 1982	Dyer et al.	702/176	February 5, 1980
	4,364,081		December 14, 1982	Hashimoto et al.	348/617	April 16, 1981
	4,365,110		December 21, 1982	Lee et al.	380/28	June 5, 1979
	4,367,548		January 4, 1983	Cotten, Jr. et al.	359/125	April 10, 1980
	4,367,557		January 4, 1983	Stern et al.	725/149	May 25, 1979
	4,368,483		January 11, 1983	Liu	348/617	June 22, 1981
	4,368,486		January 11, 1983	Degoulet et al.	348/598	February 25, 1981
	4,374,437		February 15, 1983	Citta et al.	455/164.2	December 29, 1980
	4,375,579		March 1, 1983	Davida et al.	380/28	January 30, 1980
	4,375,651		March 1, 1983	Templin et al.	348/731	July 27, 1981
	4,378,470		March 29, 1983	Murto, et al.	379/93.05	March 25, 1981
	4,379,205		April 5, 1983	Wyner	380/28	June 22, 1979
	4,385,324		May 24, 1983	Shioda et al.	348/781	November 16, 1981
	4,388,643		June 14, 1983	Aminetzhah	380/239	April 6, 1981
	4,388,645		June 14, 1983	Cox et al.	348/468	April 13, 1981
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	4,389,671		June 21, 1983	Posner et al.	380/235	September 29, 1980
	4,390,898		June 28, 1983	Bond et al.	380/241	March 23, 1981
	4,394,691		July 19, 1983	Amano et al.	348/734	July 30, 1981
	4,394,762		July 19, 1981	Nabeshima	714/758	January 6, 1981
	4,395,757		July 26, 1983	Bienvenu et al.	709/104	April 14, 1981
	4,396,915		August 2, 1983	Farnsworth et al.	340/870.03	March 31, 1980
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	4,396,947		August 2, 1983	Cheung	380/222	March 26, 1980
	4,398,216		August 9, 1983	Field et al.	380/238	September 19, 1980
	4,400,587		August 23, 1983	Taylor et al.	379/113	August 25, 1981
	4,405,942		September 20, 1983	Block et al.	380/214	March 3, 1982
	4,410,917		October 18, 1983	Newdell et al.	360/15	September 14, 1981
	4,413,339		November 1, 1983	Riggle et al.	714/765	July 24, 1981
	4,415,771		November 15, 1983	Martinez	379/43	April 3, 1981
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	4,433,207	February 21, 1984	Best	713/190	September 10, 1981
	4,434,323	February 28, 1984	Levine et al.	380/260	June 29, 1981
	4,434,436	February 28, 1984	Kleykamp et al.	380/209	July 13, 1981
	4,434,464	February 28, 1984	Suzuki et al.	711/164	March 31, 1981
	4,439,784	March 23, 1984	Furukawa et al.	725/25	September 26, 1980
	4,446,519	May 1, 1984	Thomas	711/164	May 26, 1981
	4,449,246	May 15, 1984	Seiler et al.	455/9	May 2, 1980
	4,455,570	June 19, 1984	Saeki, et al.	725/92	October 13, 1981
	4,461,002	July 17, 1984	Nanko	714/798	January 19, 1982
	4,464,679	August 7, 1984	Wargo	348/510	July 6, 1981
	4,467,139	August 21, 1984	Mollier	713/181	March 12, 1981
	4,467,356	August 21, 1984	McCoy	348/385.1	September 24, 1981
	4,471,163	September 11, 1984	Donald et al.	705/55	October 5, 1981
	4,471,164	September 11, 1984	Henry	380/30	October 13, 1981
	4,472,801	September 18, 1984	Huang	370/411	March 28, 1983
	4,473,824	September 25, 1984	Claytor	340/825.27	July 22, 1983
	4,475,123	October 2, 1984	Dumbauld et al.	380/211	April 2, 1981
	4,484,218	November 20, 1984	Boland et al.	725/131	April 29, 1981
	4,486,853	December 4, 1984	Parsons	345/418	April 1, 1981
	4,492,820	January 8, 1985	Kennard et al.	379/46	October 24, 1980
	4,500,987	February 19, 1985	Hasegawa	370/462	November 23, 1982
	4,506,387	March 19, 1985	Walter	359/118	May 25, 1983
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	4,518,989	May 21, 1985	Yabiki et al.	725/92	September 30, 1982
	4,528,588	July 9, 1985	Lofberg	340/5.1	May 18, 1982
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	4,538,176	August 27, 1985	Nakajima et al.	725/119	November 26, 1979
	4,567,359	January 28, 1986	Lockwood	235/381	May 24, 1984
	4,580,134	April 1, 1986	Campbell et al.	345/152	November 16, 1982
	4,593,353	June 3, 1986	Pickholtz	705/55	October 26, 1981
	4,598,288	July 1, 1986	Yarbrough et al.	340/5.74	December 20, 1983
	4,599,644	July 8, 1986	Fischer	725/21	October 25, 1984
	4,611,227	September 9, 1986	Brockhurst et al.	348/468	November 22, 1982
	4,614,971	September 30, 1986	Maney et al.	348/466	January 5, 1983
	4,631,585	December 23, 1986	Wine	348/510	May 7, 1984
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	4,680,797	July 14, 1986	Benke et al.	704/211	June 26, 1984
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	4,744,080	May 10, 1988	Brennand et al.	380/212	February 27, 1986
	4,748,619	May 31, 1988	Vigarie et al.	370/349	February 20, 1987
	4,772,887	September 20, 1988	Dunkerton	340/825.48	August 5, 1983
	4,774,583	September 27, 1988	Kellar et al.	348/585	February 6, 1985
	4,782,387	November 1, 1988	Sabri et al.	375/240.21	December 9, 1986
	4,809,267	February 28, 1989	Higuchi et al.	370/460	June 29, 1987
	4,814,756	March 21, 1989	Chauvel	345/565	January 28, 1987
	4,831,526	May 16, 1989	Luchs et al.	705/4	April 22, 1986
	4,835,777	May 30, 1989	DeLuca, et al.	714/822	January 7, 1987
	4,908,713	March 13, 1990	Levine	386/83	June 29, 1988
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